

# PortBloque S

Modbus Serial Firewall



## Enforces Safe and Secure Operations

PortBloque™ ("port block") S can prevent attacks on Modbus control systems. The purpose-built firewall looks deep inside Modbus packets to ensure that systems receive only the commands required for normal operations and not accidental or unauthorized commands that could lead to harmful consequences.

- **Drop-in Modbus Security**

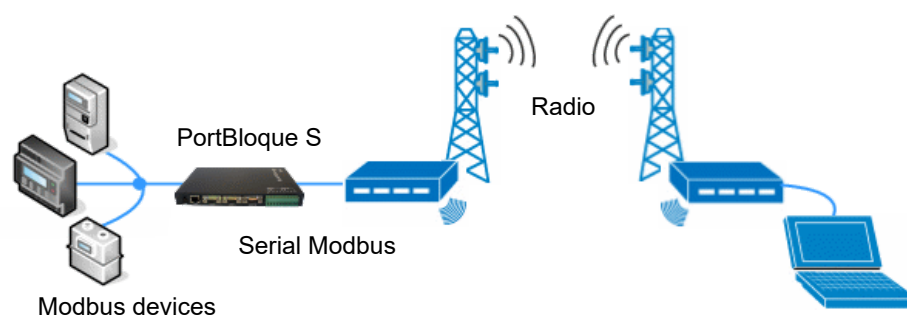
PortBloque S performs advanced Modbus filtering to protect serial control devices. It installs easily on RS-485, RS-422, or RS-232 networks. It can also be used in conjunction with a standard firewall to provide strong Modbus security.

- **Filters Anything and Everything**

Modbus filtering is easy! Simply enter the Modbus device IDs you want to make available. Then select the types of Modbus function codes you want those devices to receive, including user-defined codes. By defining register and range values, you can prevent the control device from being put into an undesired or unstable mode.

## Technical Specifications

Firewall Rules	Modbus deep packet inspection (DPI): <ul style="list-style-type: none"> <li>- Device IDs: single or group; including broadcast ID</li> <li>- Function codes: 1-8, 11,12, 15-17, 20-24, 43; four user-defined codes</li> <li>- Registers</li> <li>- Values</li> </ul> Bidirectional filtering
Serial Protocols	Modbus RTU Modbus ASCII
Interfaces	RS-485 2-wire, RS-422 4-wire, RS-232 Host/Slave: 10-pin terminal block Slave: DB9 male Host: DB9 female Mgmt: DB9 female (RS-232) LAN: RJ45 Ethernet (10/100BaseT)
Serial Signals	RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD RS-485 2-wire: Data+, Data- RS-422 4-wire: Tx+, Tx-, Rx+, Rx-
Serial Topologies	Multi-drop (up to 31 slaves) Point-to-point
Data Rate	300 to 115.2K bps (async)
Web Interface	Login-secure levels: Superuser, User Dashboard for at-a-glance firewall statistics
Logging	Traffic accounting and system log (Syslog)
LED Indicators	Power, Link, Secure
Power	External 3.3VDC power adapter
Physical	Enclosure: 18 gauge steel Weight: 2 lbs Size: 1 x 8 x 5 inches (2.54 x 20.32 x 12.7 cm)
Operating Environment	-40° C to 85° C (-40° F to 185° F)
Warranty	2 Years



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